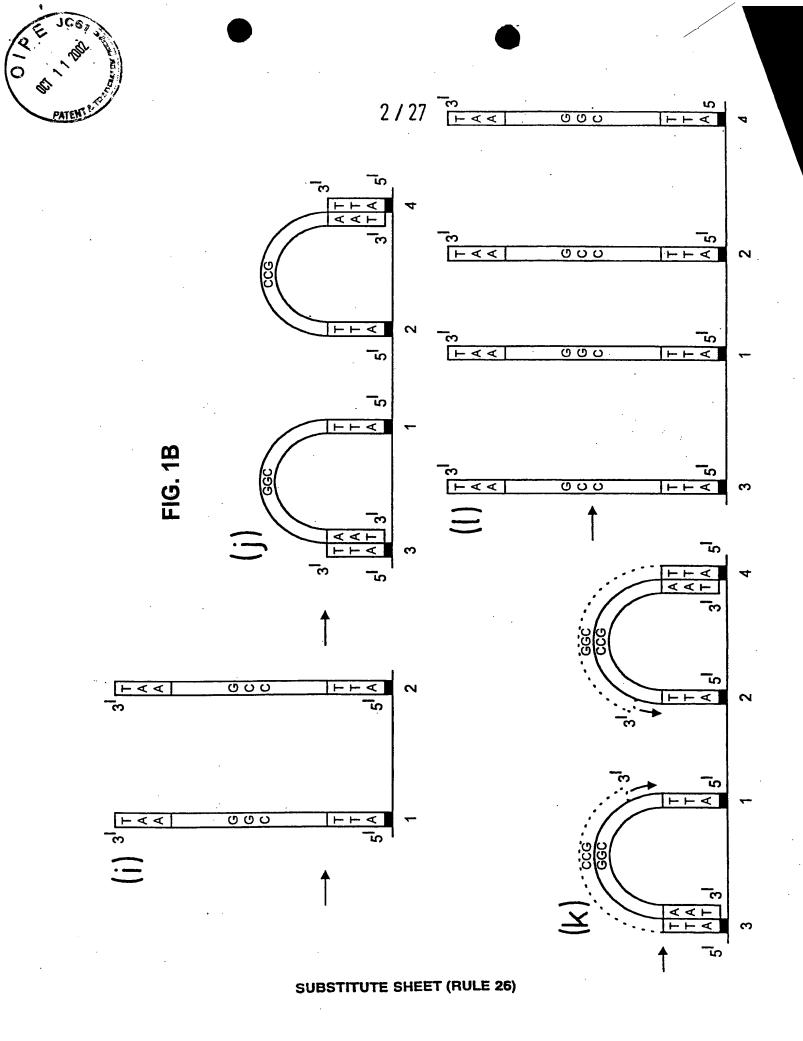
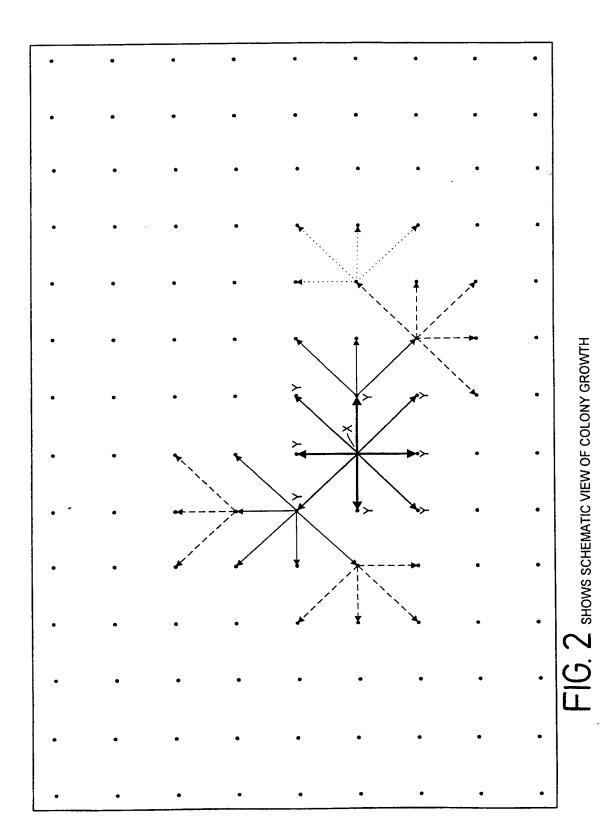


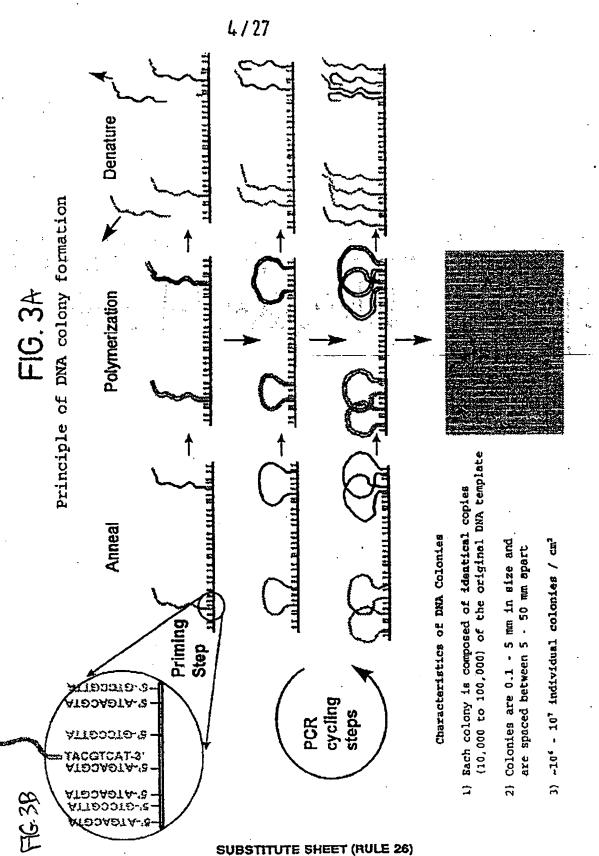
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FIG. 4

Colony generation on tubes functionalised with oligonucleotide p57 (control). Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 0.10 fmol/tube.

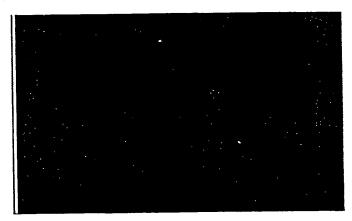
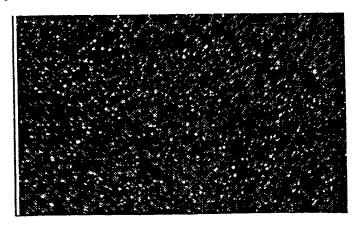
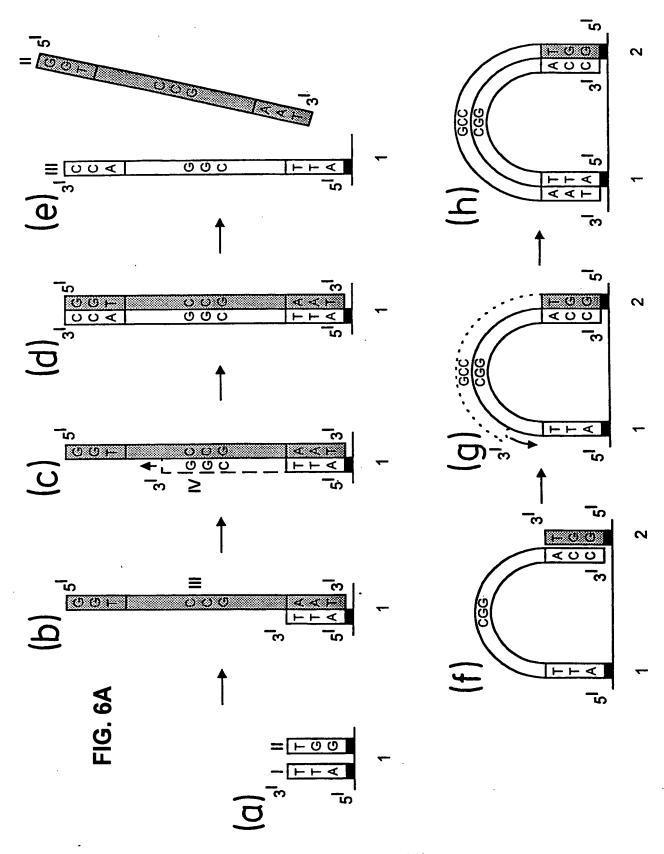


FIG. 5

Colony generation on tubes functionalised with oligonucleotide p58. Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 6.2 fmol/tube



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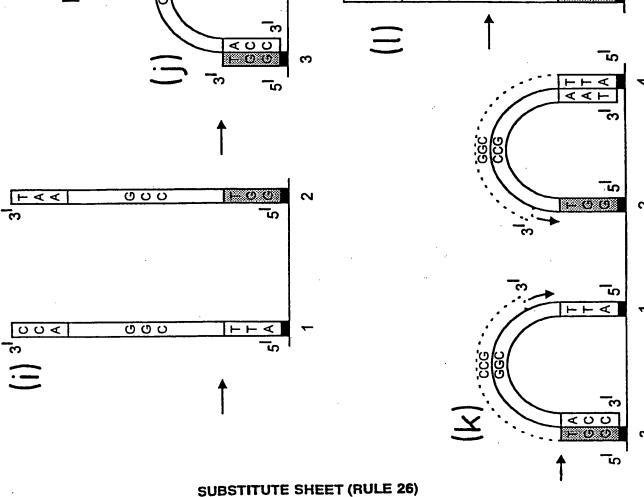




FIG. 7

DNA amplification - detection of colonies with DNA intercalating dyes



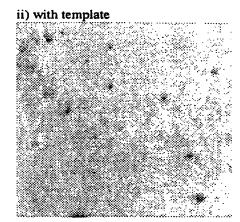
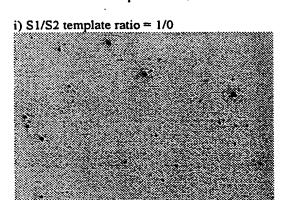
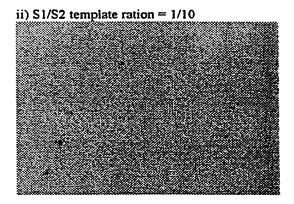


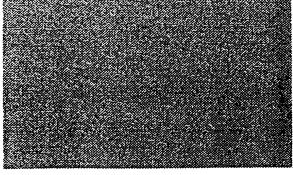
FIG. 8

DNA amplification; detection of colonies by specific probe hybridisation



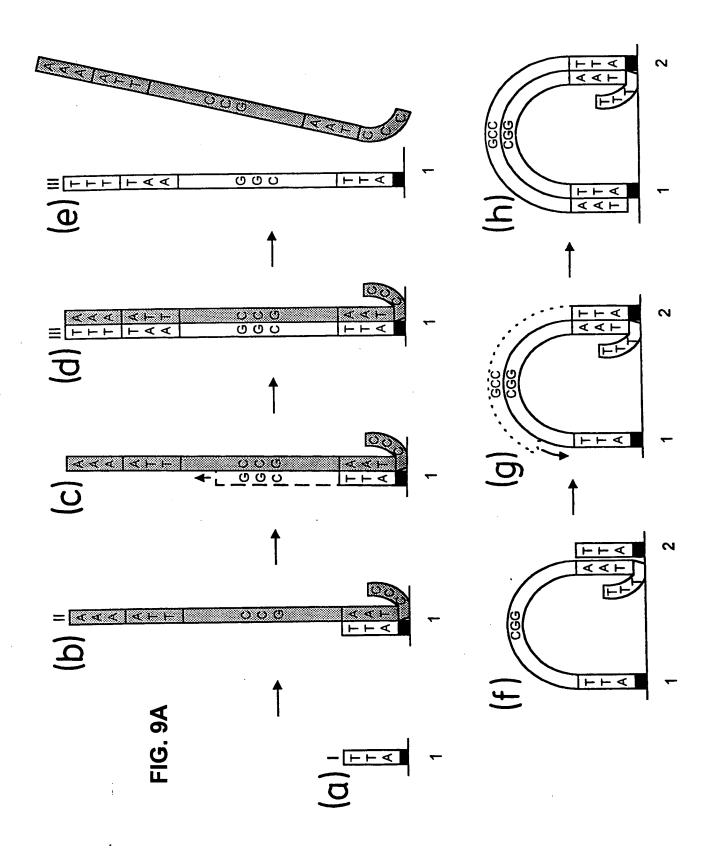


iii) S1/S2 template ratio = 0/1



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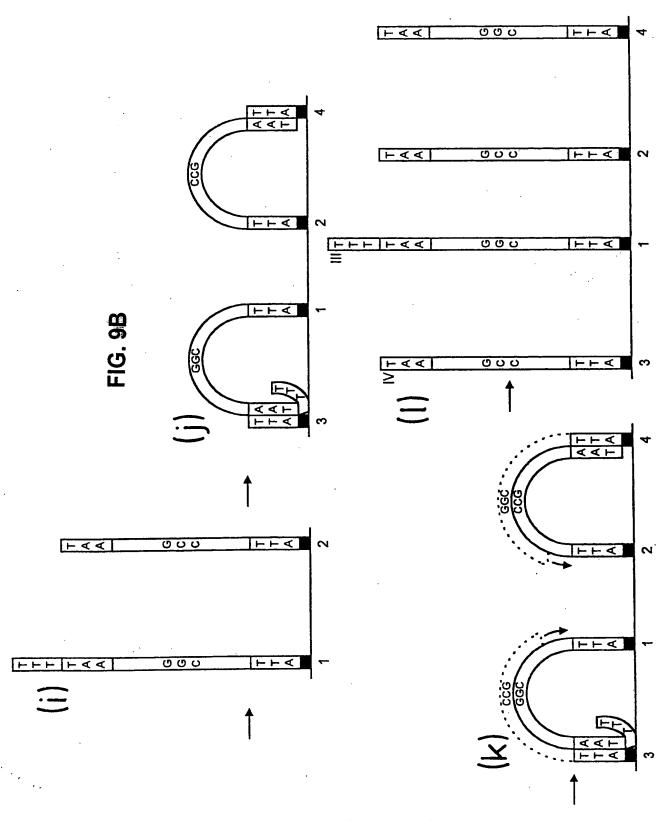
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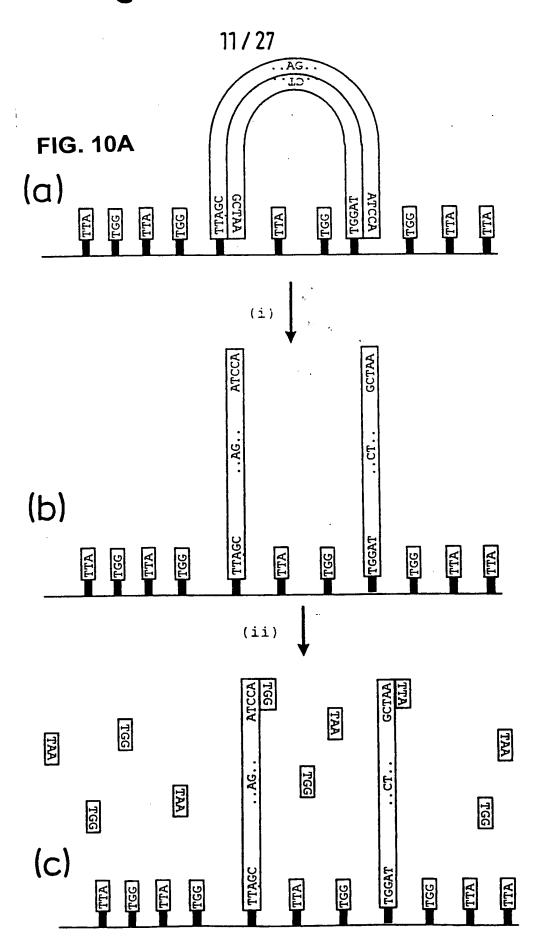
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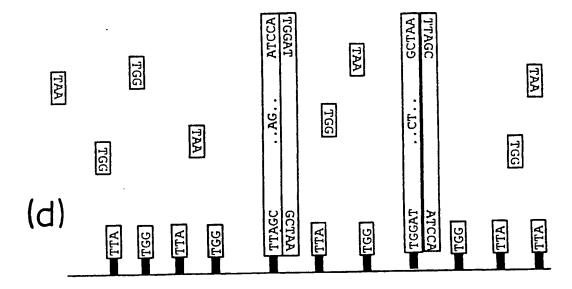


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FIG. 10B



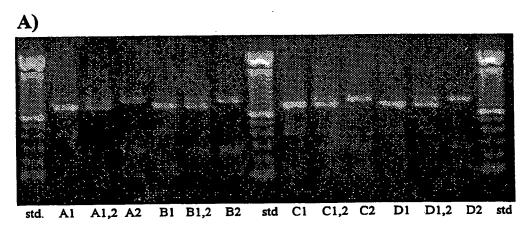
(iv)

ADDIA LECAL	5A	DDATT GCLWW	ADDIAAG	TTAGC TTAGC
TAA	TGG	LAG ATCCA LVBBL	TTAGCTJ	Tab
(e) _	TTA TGG	TGG TTAGC VVLD9 TTA	TGG T YOUNG TGG TTA	TTA

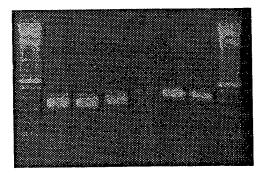
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FIG. 11

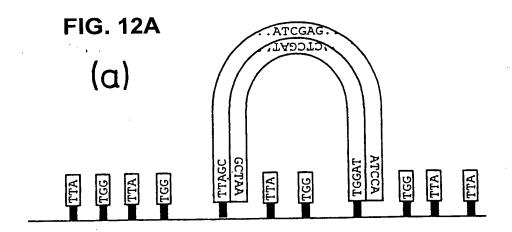


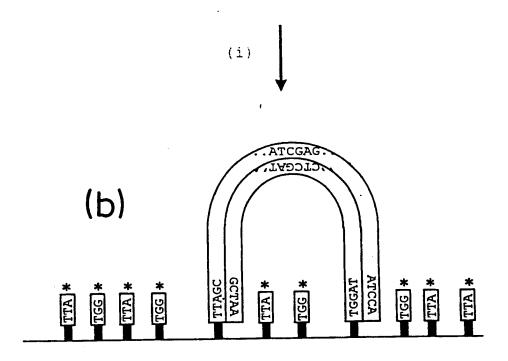
B)



std. E1 E1,2 E2 F1 F1,2 F2 std

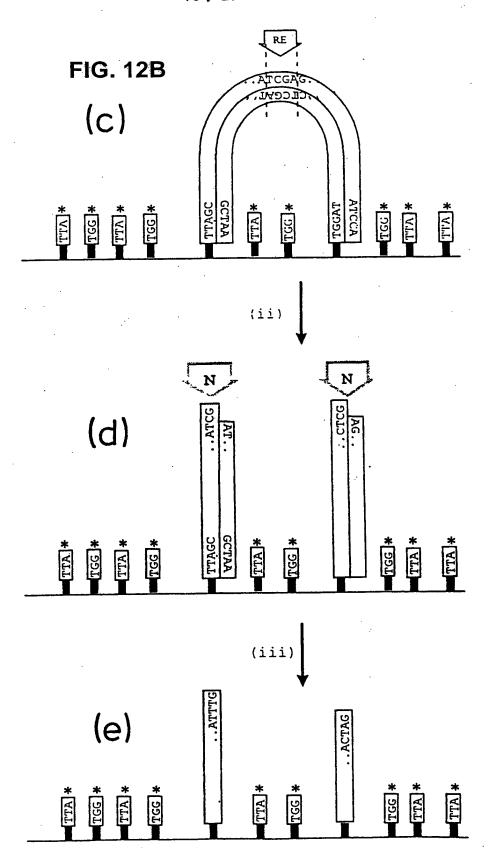
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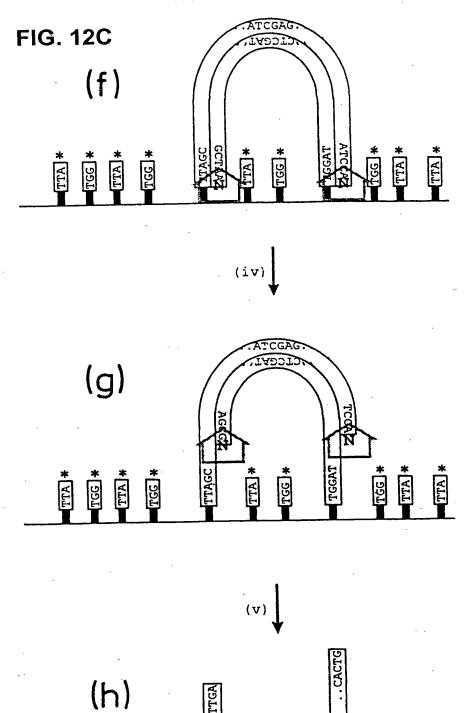
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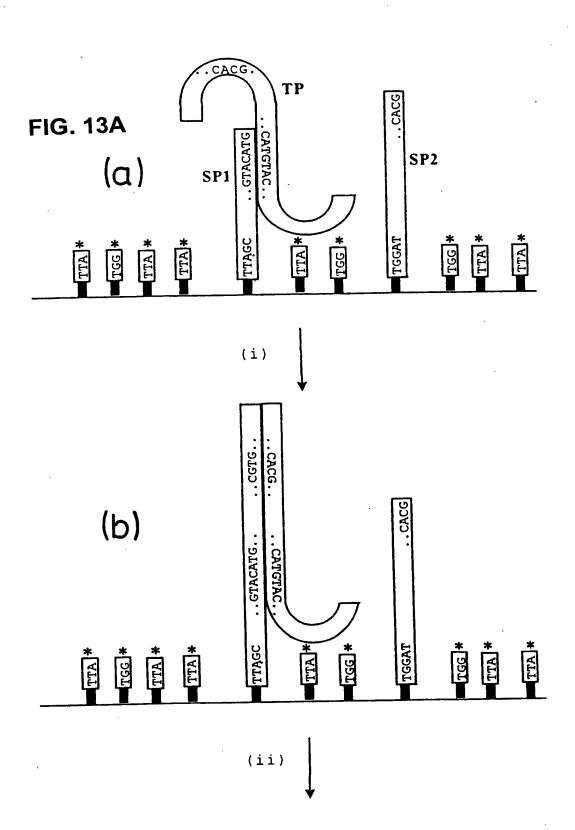


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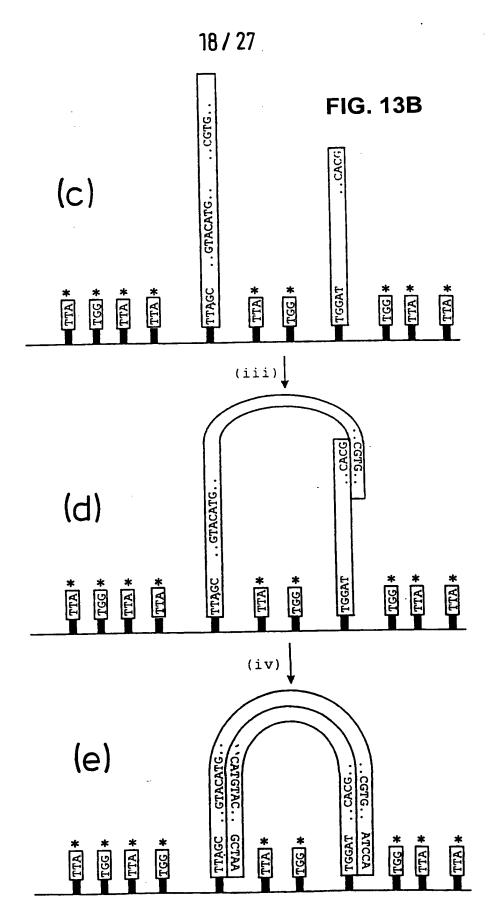


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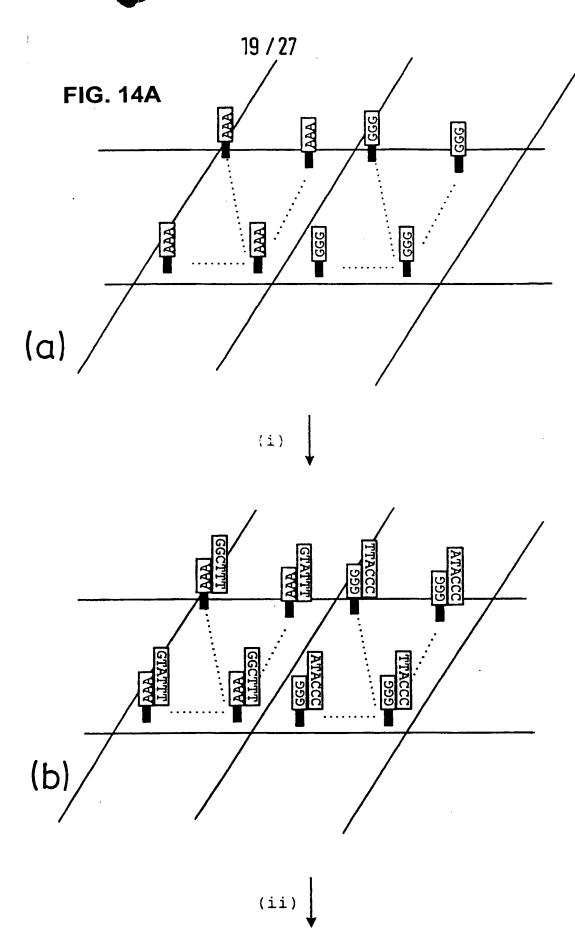


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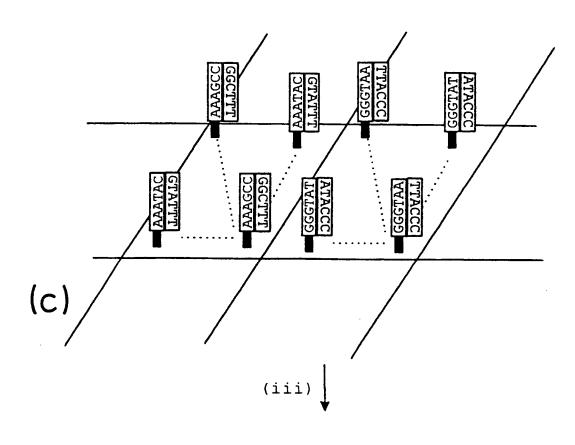


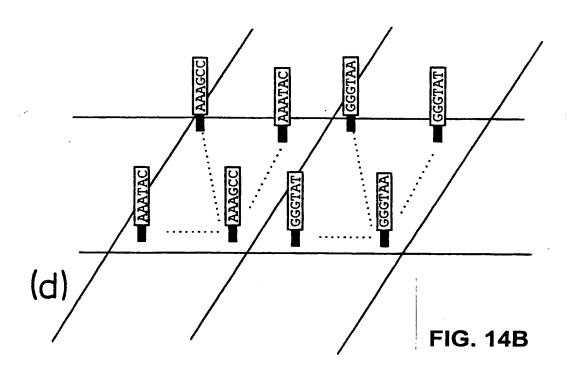


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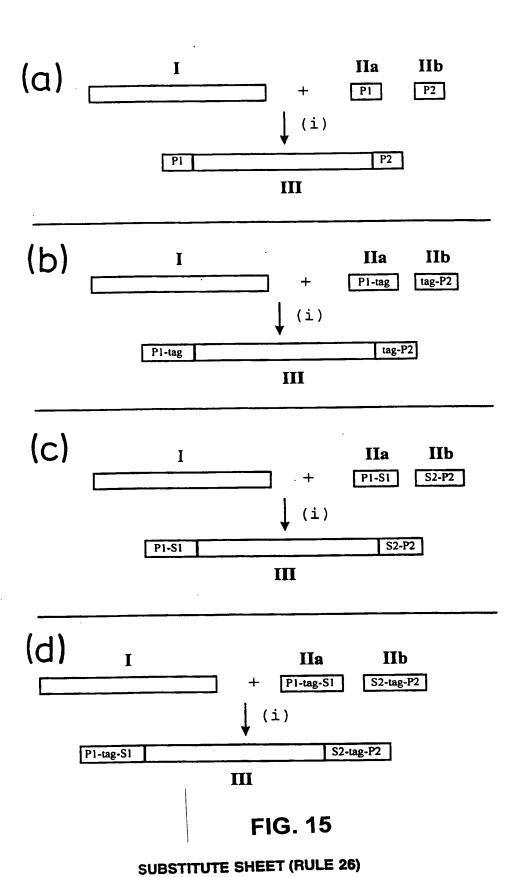
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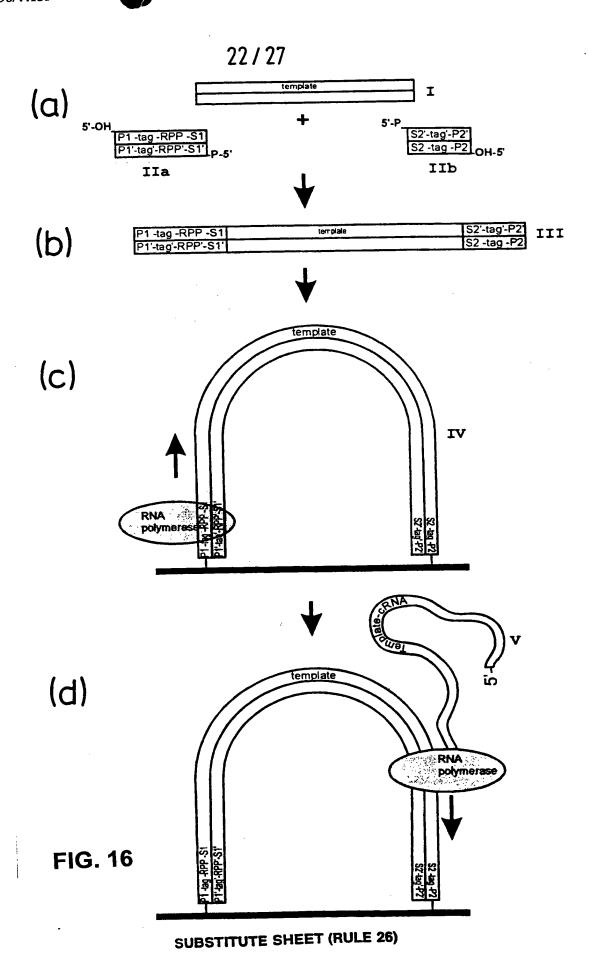




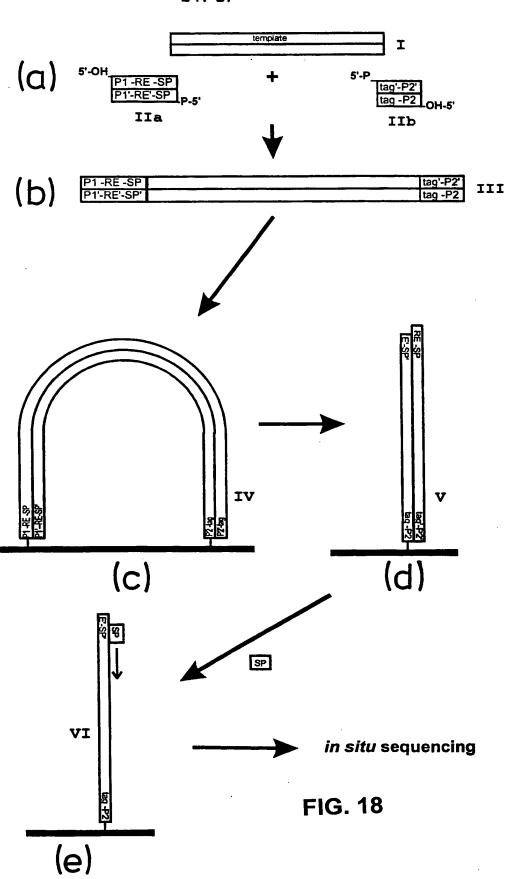
FIG. 17 in situ Sequencing

(a)	① 2 2 ① ② ① 2 ① 2 ① ① 2 ①	Two types of randomly arrayed DNA colonies
(b) step 1 add dGTP		1 2 G
(C) step 2 add dATP		
(d) step 3 add dTTP		1
(e) step 4 add dCTP		

DNA sequence:

type 1: ATC type 2: GAC





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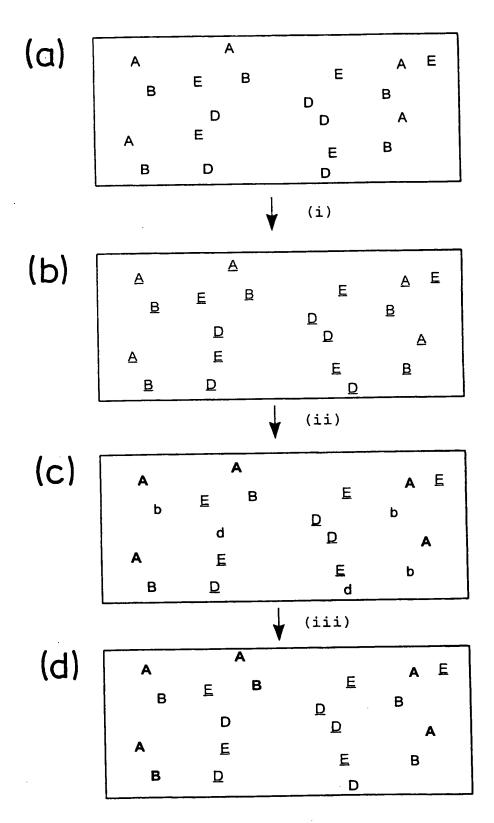
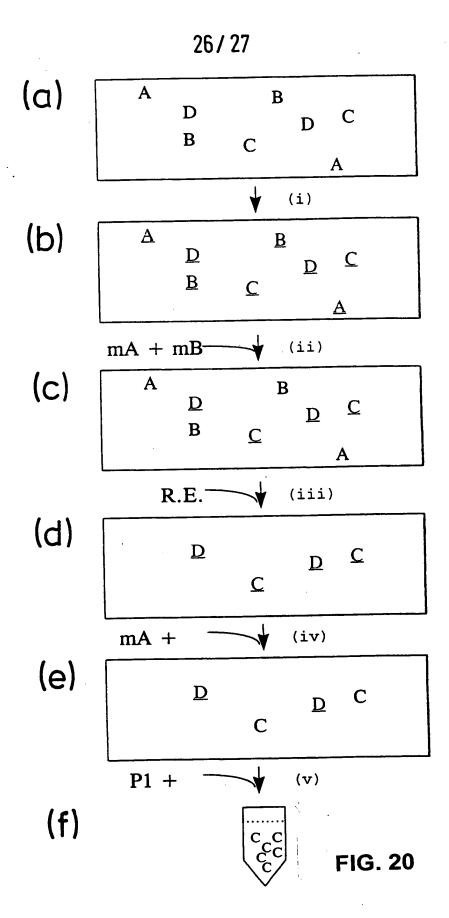


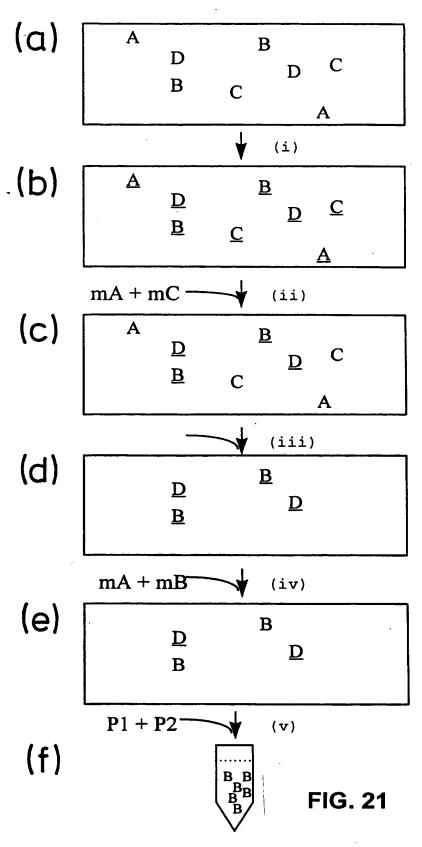
FIG. 19
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